

NWS FORM E-5

(11-88)

(PRES. by NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION****NATIONAL WEATHER SERVICE****HYDROLOGIC SERVICE AREA (HSA)****WFO Jackson, Mississippi****MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:

MONTH

YEAR

June**2016**

TO: Hydrometeorological Information Center, W/OH2
NOAA / National Weather Service
1325 East West Highway, Room 7230
Silver Spring, MD 20910-3283

SIGNATURE

Chad Entremont, Acting Meteorologist In-Charge

DATE

07/14/2016

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924)

☒ An X inside this box indicates that no river flooding occurred within this Hydrologic Service Area.

Synopsis...

June 2016 was a pretty warm month. All climate sites observed nearly 2° to more than 5° above normal monthly June averages. Meridian was the warmest at 5.3° above normal which put it as its third warmest June on record.

As for precipitation, the month consisted of mostly daily pop-up afternoon showers and storms. Most climate sites recorded within an inch of normal monthly precipitation overall. Hattiesburg was the big winner for the month though with 8.13 inches of rainfall, which is 2.63 inches above its normal monthly amount.

Weather Highlights...

The month started out with a cold front approaching the HSA (Hydrologic Service Area). A low generated on the southern end of the front over Texas and Oklahoma and dropped a lot of precipitation over Texas and Louisiana through June 3rd. For this HSA, very isolated amounts of up to 4 inches fell, but most locations received only a half inch or so. As the low pressure sunk southward on the 4th, storm coverage over the HSA increased and several locations received at least an inch of rain before the cold front passed through the area on the 5th. The cold front continued south and east on the 6th and helped turn Tropical Storm Colin into the Big Bend Region of Florida without it affecting this HSA at all.

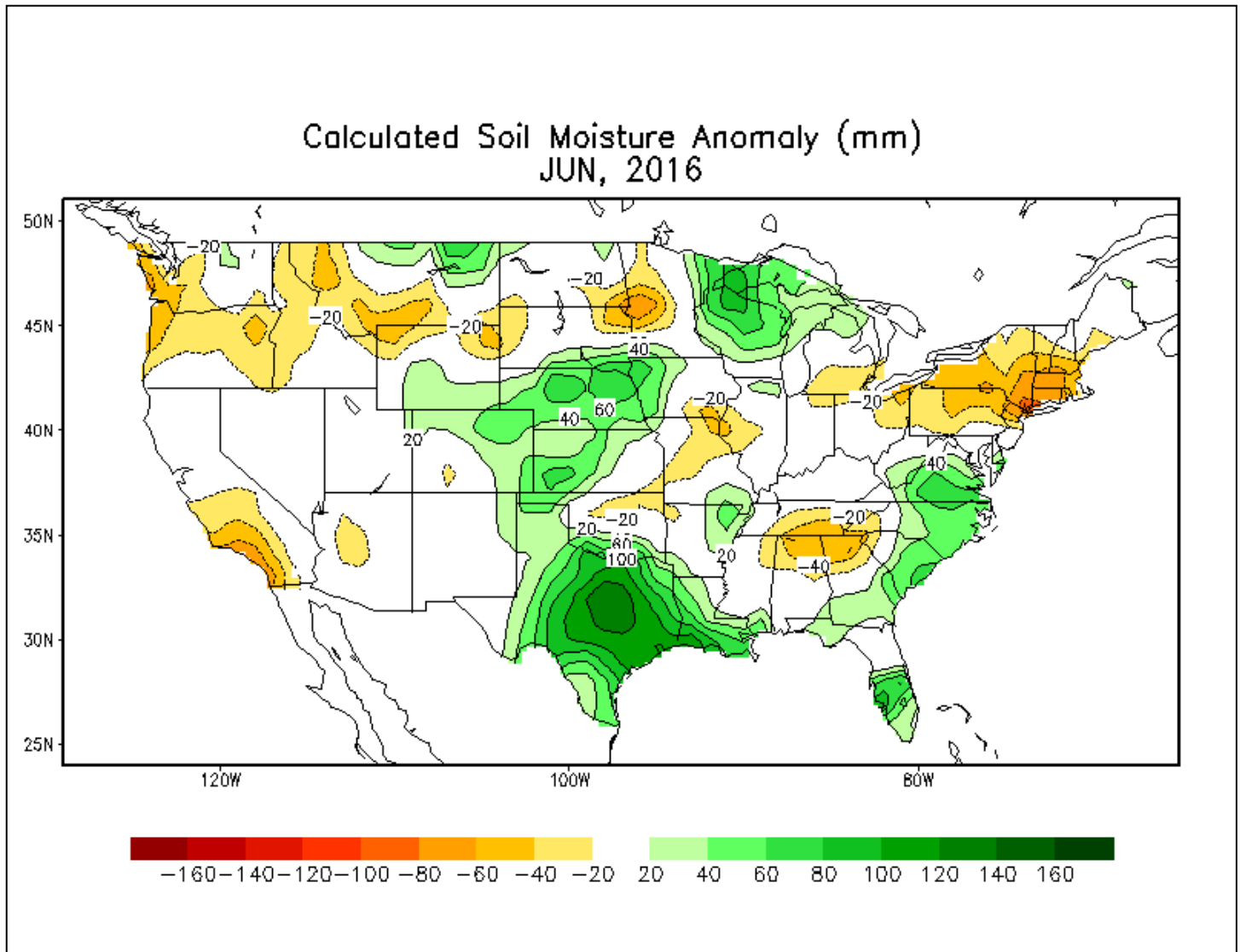
High pressure built into the region after the exit of this front and left the area dry for about a week. On the 12th, the high pressure moved off to the east a bit and allowed southerly flow to return to the HSA. Daily afternoon showers began to pick up again and lasted through the 15th when the high weakened and pushed off the coast.

On the 18th, the afternoon showers picked up again and continued through the 28th in varying degrees of coverage and intensity each day.

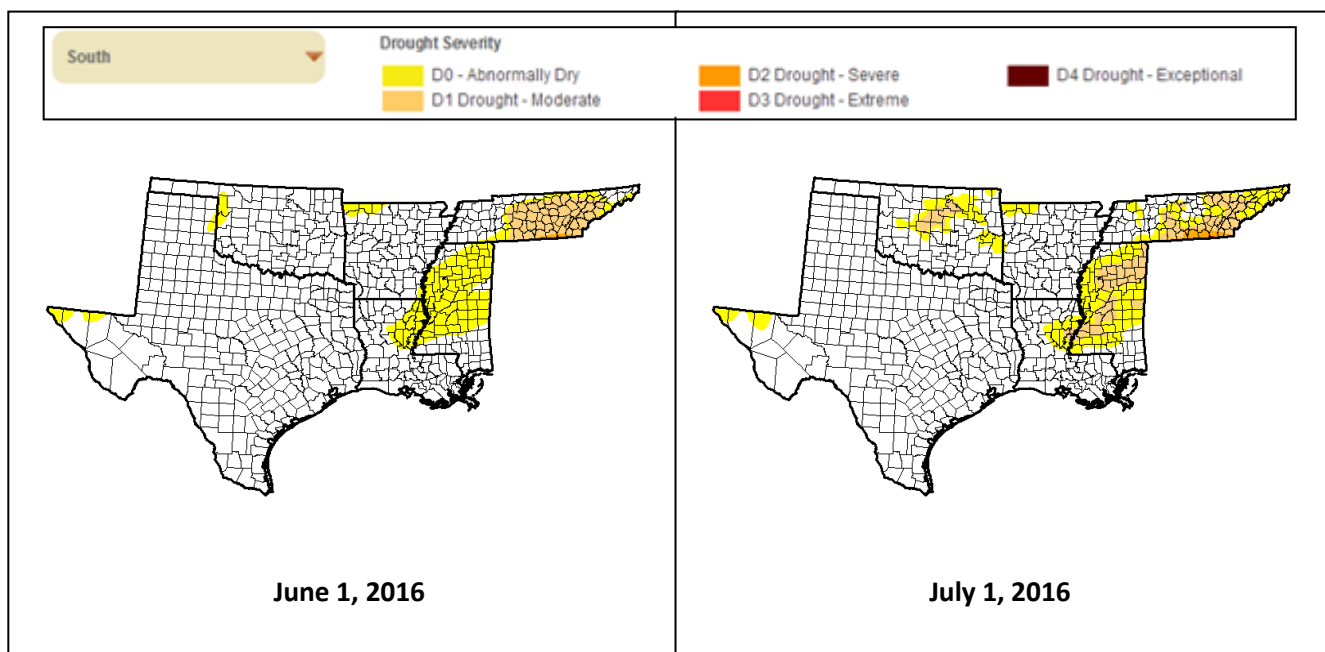
On the 29th, a "cold" front passed through the HSA and triggered showers and storms in the afternoon just as the days prior. Rainfall totals on this day ran as high as 2 to 3 inches in scattered locations throughout south Mississippi. The last day of the month saw the front stall along the coast and yield very little rainfall within the HSA.

River and Soil Conditions

Soil Moisture Map:

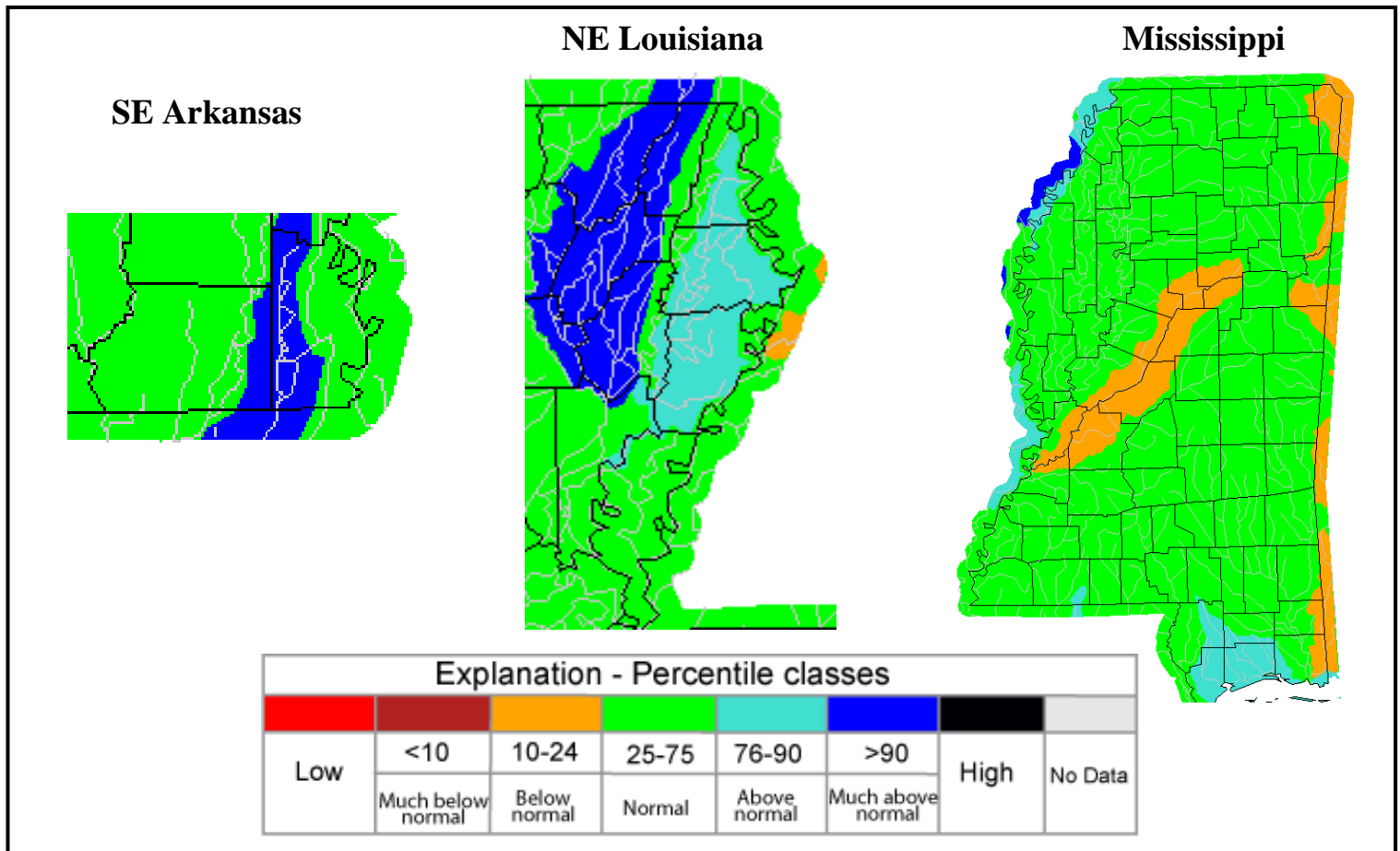


Drought Comparison:



Streamflow:

The United States Geological Survey's (USGS) June 2016 river streamflow records were compared with all historical June streamflow records. The average streamflow for the Big Black River basin in Mississippi was below normal while all other basins in central Mississippi were normal. The Bayou Macon basin in northeast Louisiana experienced above normal streamflow while the Boeuf River basin in southeast Arkansas and northeast Louisiana experienced much above normal streamflow.

**River Conditions:**

There was no river flooding during the month of June.

Climatic Outlook and Flood Potential:

The climatic outlook shows above normal temperatures over the next three months for the entire HSA. In regards to precipitation, the outlook shows equal chances for at/below/above normal precipitation throughout the entire HSA. Thus, based on current soil moisture, streamflow, and the 3-month climate outlook, the flood potentials are thus:

Pearl River System: Normal.

Yazoo River System: Normal.

Big Black River System: Normal.

Homochitto River System: Normal.

Pascagoula River System: Normal.

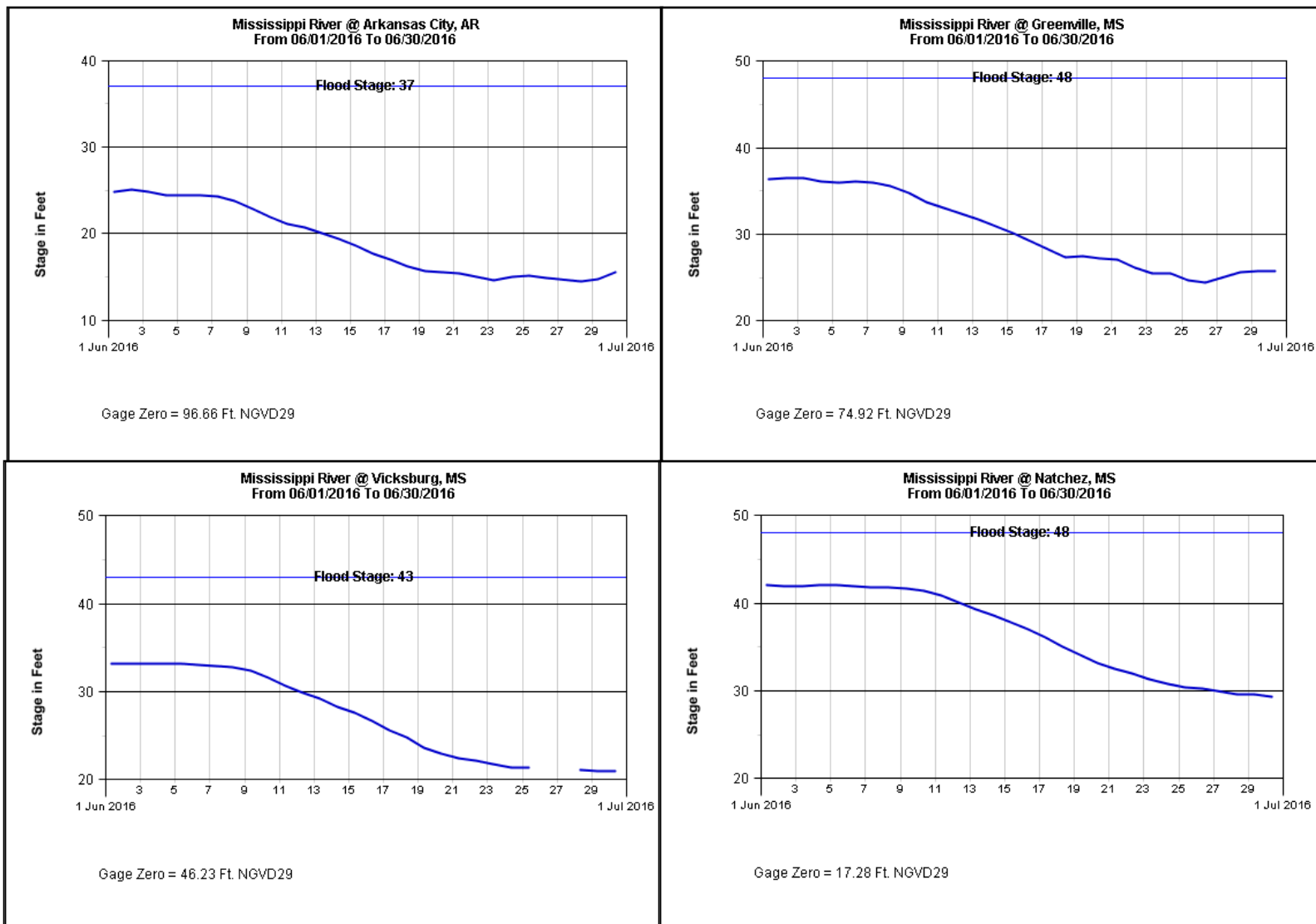
Northeast LA and Southeast AR: Normal.

Tombigbee River System: Normal.

Mississippi River: Normal.

Mississippi River Plots June 2016

Plots Courtesy of the United States Army Corps of Engineers



Monthly Preliminary High and Low Stages:

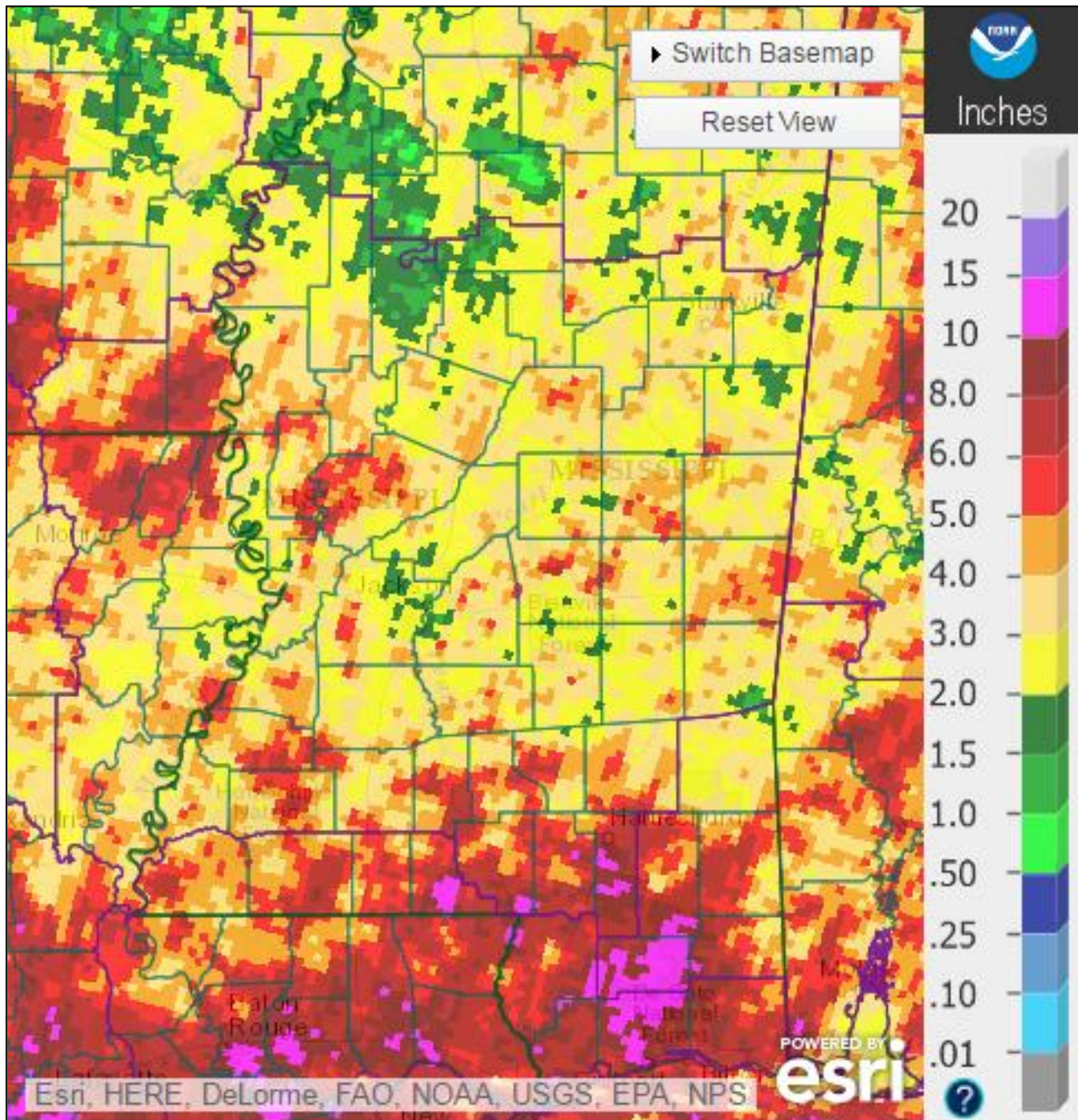
Location	Flood Stage (ft)	High Stage (ft)	Date	Low Stage (ft)	Date
Arkansas City	37	25.03	6/02	14.53	6/28
Greenville	48	36.53	6/02	24.45	6/26
Vicksburg	43	33.21	6/01	20.95	6/29
Natchez	48	42.09	6/01	29.36	6/30

Rainfall for the Month of June

During the period from 7 am May 31st until 7 am June 30th, the largest rainfall amounts from NWS Cooperative Observers were:

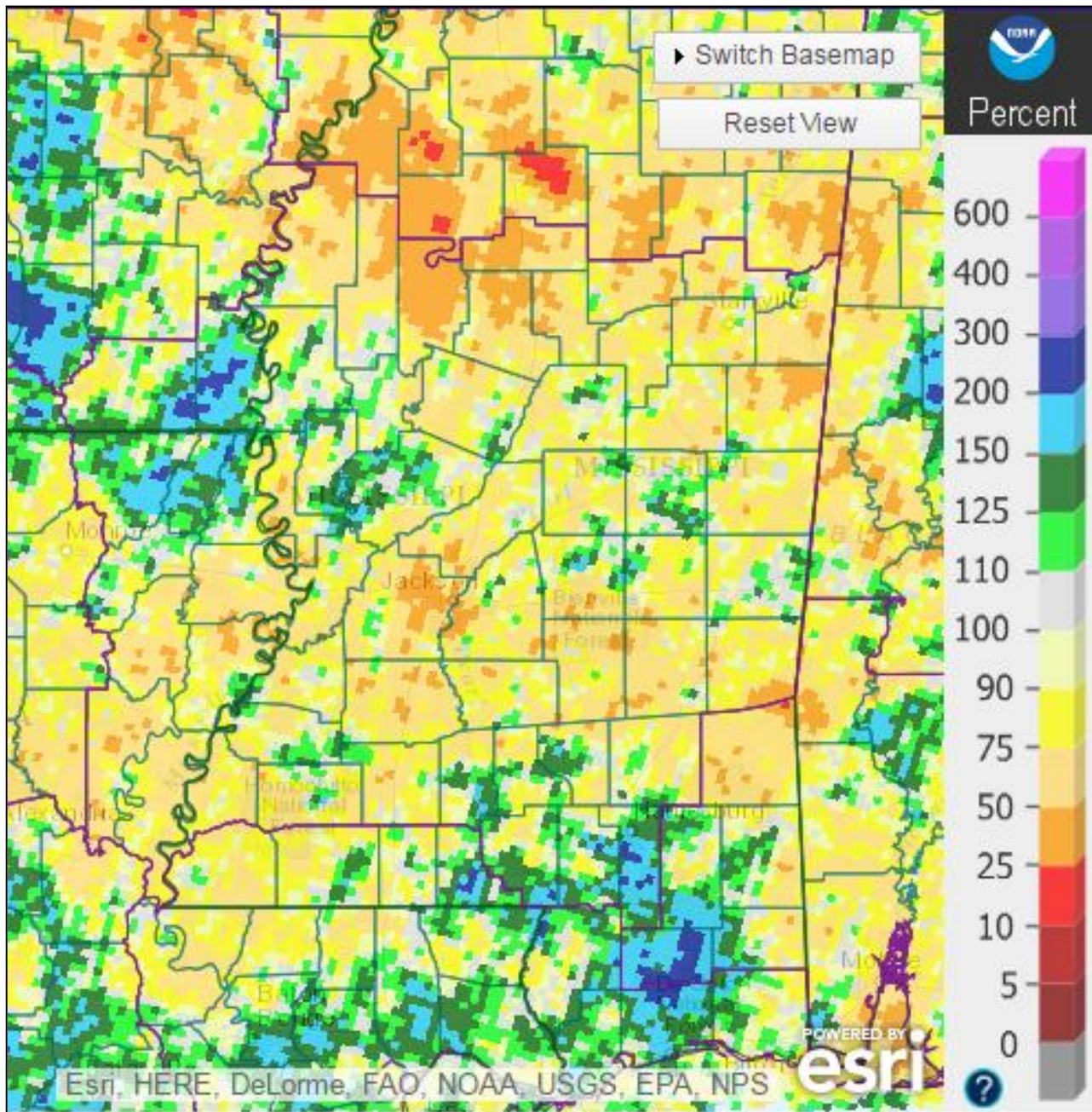
This will be updated at a later time

June Rainfall Estimates:



Note: Observer rainfall and MPE in June may differ due to time differences.

June Percent of Normal Precipitation:



Note: Observer rainfall and MPE in June may differ due to time differences.

June Rainfall for Selected Cities:

City (Airport)	Rainfall	Departure from Normal	2016 Rainfall	2016 Departure from Normal
Jackson (KJAN)	3.03	-1.09	35.48	+7.25
Meridian (KMEI)	4.91	+0.51	29.90	+0.07
Hattiesburg (KHBG)	8.13	+2.63	39.29	+7.25
Vicksburg (KTVR)	3.51	-0.48	35.98	+9.69
Greenville (KGLH)	1.68	+0.92	31.46	+2.40
Greenwood (KGWO)	3.37	-0.94	29.16	+1.52

Total Flood Warning products issued: 0
Total Flood Statement products issued: 0
Total Flood Advisories MS River: 0
Daily Climate and Ag WX Products (AGO'S) issued: 30
Daily CoCoRaHS Rainfall Products (LCO'S) issued: 30
Daily River and Lake Summary Products (RVD'S) issued: 30

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&
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Note: Provisional stage and precipitation data were furnished with the cooperation of the Mississippi, Louisiana, and Arkansas National Weather Service Cooperative Observer Programs, United States Geological Survey (USGS), United States Army Corps of Engineers (USACE), Pearl River Valley Water Supply District (PRVWSD), Pat Harrison Waterway District, Pearl River Basin Development District, and the Mississippi Department of Environmental Quality.

cc: USGS Little Rock District
USGS Ruston District
USACE Mobile District
USACE Vicksburg District
USACE Mississippi Valley Division
USGS Mississippi District
SRH Climate, Weather and Water Division
Lower Mississippi River Forecast Center
Pearl River Valley Water Supply District
Hydrologic Information Center
Southern Region Climate Center
Pat Harrison Waterway District
Pearl River Basin Development District